

Notice of Allowability

Application No.

10/671,914

Examiner

Charles E. Anya

Applicant(s)

Longbardi, Roberto

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's remarks/amendment of 11/13/07.
2. ☒ The allowed claim(s) is/are 12-20: now renumbered as 1-9.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None, of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 1/29/08
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT & REASONS FOR ALLOWANCE

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gerald R. Woods (Reg. No. 24,144) on 1/29/08.

I. EXAMINER'S AMENDMENT:

In the claims:

Claim 12:

Rewrite claim 12 as follows:

In a resource management infrastructure including a framework for allowing management applications to access managed objects, the framework supporting compliant providers of dynamic services for the managed objects running in a first operative environment, a method of integrating a plurality of non-compliant providers of dynamic services for a set of the managed objects, the non-compliant providers running in a second operative environment that is not supported by the framework, wherein the method includes the steps of:

the framework requesting a first dynamic service for a selected managed object of the set of the managed objects from a compliant provider associated with the

selected managed object, the compliant provider being common to all the managed objects of the set of the managed objects;

the compliant provider converting at least one first parameter received from the framework with the request of the first service into at least one second parameter supported by the second operative environment;

the compliant provider identifying a non-compliant provider associated with the selected managed object;

the compliant provider verifying whether the second operative environment has been created before requesting a second dynamic service from the intermediate entity;

the compliant provider creating the second operative environment if the result of the verification is negative;

the compliant provider requesting the second dynamic service for the selected managed object, corresponding to the first dynamic service, from an intermediate entity running in the second operative environment and passing an indication of the non-compliant provider;

the compliant provider passing the at least one second parameter to the intermediate entity with the request of the second dynamic service;

the intermediate entity routing the request of the second dynamic service to the non-compliant provider, the intermediate entity passing the at least one second parameter to the non-compliant provider with the request of the second dynamic service;

the non-compliant provider returning a result of the second dynamic service to the intermediate entity; the intermediate entity returning the result of the second dynamic service to the compliant provider;

the compliant provider constructing a result of the first dynamic service according to the result of the second dynamic service;

the compliant provider returning the result of the first dynamic service to the framework; and

the compliant provider destroying the second operative environment after a predetermined time-out from a last use thereof.

Claim 15:

Rewrite claim 15 as follows:

A computer program product for implementing a resource management infrastructure including a framework for allowing management applications to access a set of managed objects, the framework supporting compliant providers of dynamic services for the managed objects running in a first operative environment and for integrating a plurality of non-compliant providers of dynamic services for said set of the managed objects, the non-compliant providers running in a second operative environment that is not supported by the framework, the computer program product comprising a computer storage medium having computer executable program code embodied therewith, the computer executable program code comprising:

computer executable program code requesting a first dynamic service for a selected managed object of the set from a compliant provider associated with the selected managed object, the compliant provider being common to all the managed objects of said set of the managed objects;

computer executable program code causing the compliant provider to convert at least one first parameter received from the framework with the request of the first service into at least one second parameter supported by the second operative environment;

computer executable program code causing the compliant provider to identify a noncompliant provider associated with the selected managed object;

computer executable program code causing the compliant provider to verify whether the second operative environment has been created before requesting the second dynamic service to the intermediate entity;

computer executable program code causing the compliant provider to create the second operative environment if the result of the verification is negative;

computer executable program code causing the compliant provider to send a request a second dynamic service for the selected managed object, corresponding to the first dynamic service, to an intermediate entity running in the second operative environment, said request comprising an indication of the non-compliant provider;

computer executable program code causing the compliant provider to pass the at least one second parameter to the intermediate entity with the request of the second dynamic service;

computer executable program code causing the intermediate entity to route the request for the second dynamic service to the non-compliant provider, the intermediate entity passing the at least one second parameter to the non-compliant provider with the request of the second dynamic service;

computer executable program code causing the intermediate entity to return the result of the second dynamic service to the compliant provider;

computer executable program code causing the compliant provider to construct a result of the first dynamic service according to the result of the second dynamic service;

computer executable program code causing the compliant provider to return the result of the first dynamic service to the framework; and

computer executable program code causing the compliant provider to destroy the second operative environment after a predetermined time-out from a last use thereof.

Claim 18:

Rewrite claim 18 as follows:

A resource management infrastructure comprising:

a framework for enabling management applications to access managed objects;
a compliant provider of dynamic services for the managed objects running in a first operative environment, said compliant provider being common to all the managed objects;

a non-compliant provider of dynamic services for the managed objects, said [at least one] non-compliant provider running in a second operative environment that is not

supported by the framework and an intermediate entity running in the second operative environment, said compliant provider further comprising:

means for receiving a request from said framework for a first dynamic service for a selected managed object;

means for converting at least one parameter received from the framework with the request of the first service into at least one second parameter supported by the second operative environment;

means for identifying a non-compliant provider associated with the selected management object;

means for verifying whether the second operative environment has been created before requesting the second dynamic service to the intermediate entity;

means for creating the second operative environment if the result of the verification is negative;

means for sending a request to the intermediate entity for a second dynamic service for the selected management object, the request comprising an identification of a non-compliant provider, said intermediate entity further comprising:

means for routing the request for the second dynamic service to the identified non-compliant provider, the routed request comprising the at least one second parameter, said non-compliant provider further comprising:

means for returning a result of the second dynamic service to the intermediate entity, said intermediate entity further comprising:

means for forwarding the returned result to the compliant provider, the compliant provider further comprising:

means for constructing a result of the first dynamic service according to the result of the second dynamic service;

means for returning the result of the first dynamic service to the framework; and

means for destroying the second operative environment after a predetermined time-out from a last use thereof.

II. REASONS FOR ALLOWANCE:

The prior arts of record do not explicit teach or render obvious the invention as recited in the independent claims.

The Sheriff et al prior art (U.S. Pat. No. 6,854,122 B1) provides a system and method for utilizing a computer with a first operating system to access and perform operations on a second computer having a different operating system, using a web-based adapter routine. A Java console accesses a web based adapter routine to implement a set of Java based APIs to perform CIM operations. The adapter routine, in conjunction with a Java Native Interface and a CIM to WMI mapper enables CIM operations to be performed on a managed server having for example, a Microsoft Operating System or XML based communications.

However, the invention as claimed "the compliant provider verifying whether the second operative environment has been created before requesting a second dynamic service from the intermediate entity; the compliant provider creating the second

operative environment if the result of the verification is negative... and the compliant provider destroying the second operative environment after a predetermined time-out from a last use thereof", when taken in the context of the claims as a whole, was not uncovered in the prior art's teaching.

Nor were references uncovered that would have provided a basis of evidence for asserting a motivation that one of ordinary skill in the art at the time the invention was made, knowing of a system and method for utilizing a computer with a first operating system to access and perform operations on a second computer having a different operating system, using a web-based adapter routine, wherein the adapter routine is accessible to implement a set of Java based APIs to perform CIM operations, would have integrated or modified to teach a process for integrating a plurality of non-compliant providers of dynamic services for managed objects into compliant providers dynamic services for managed objects including a compliant provider for verifying whether a second operative environment has been created before requesting a second dynamic service from an intermediate entity, the compliant provider creating the second operative environment if the result of the verification is negative... and the compliant provider destroying the second operative environment after a predetermined time-out from a last use thereof" as claimed by the instant application.

Dependent claims are allowed as they depend upon allowable independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles E. Anya whose telephone number is 571-272-3757. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Thomson can be reached on 571-272-3718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

cea.


WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER